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Modular Hecke algebras and quantum statistical mechanics of Q -lattices: an overview. Preliminary report.

My intention is to discuss the general picture of the modular Hecke algebras and their relation to the $GL(2)$ system of quantum statistical mechanics and to point towards open problems. I might also discuss, if time permits, the analogy with the statistical system needed to describe spontaneous symmetry breaking in quantum gravity. (Received August 05, 2007)